

12. (New) The hexagonal lithium-cobalt composite oxide for a lithium secondary cell according to Claim 1, which is obtained by a process which comprises dry blending a cobalt oxyhydroxide powder having an average particle size of from 1 to 20  $\mu\text{m}$  and a specific surface area of from 2 to 200  $\text{m}^2/\text{g}$ , a lithium carbonate powder having an average particle size of from 1 to 50  $\mu\text{m}$  and a specific surface area of from 0.1 to 10  $\text{m}^2/\text{g}$ , and a powder of an oxide of metal element M having an average particle size of at most 10  $\mu\text{m}$  and a specific surface area of from 1 to 100  $\text{m}^2/\text{gm}$ , and firing the mixture at a temperature of from 850 to 1,000°C in an oxygen-containing atmosphere.

13. (New) A hexagonal lithium-cobalt composite oxide for a lithium secondary cell, which is represented by the formula  $\text{LiCo}_{1-x}\text{M}_x\text{O}_2$ , wherein x is  $0 < x \leq 0.02$  and M is at least one member selected from the group consisting of Ta, Ti, Nb, Zr and Hf, and which has a half-width of the diffraction peak for (110) face at  $2\theta = 66.5 \pm 1^\circ$ , of from 0.070 to 0.180°, as measured by the X-ray diffraction using  $\text{CuK}\alpha$  as a ray source.

14. (New) The hexagonal lithium-cobalt composite oxide for a lithium secondary cell according to Claim 13, which is obtained by a process which comprises dry blending a cobalt oxyhydroxide powder having an average particle size of from 1 to 20  $\mu\text{m}$  and a specific surface area of from 2 to 200  $\text{m}^2/\text{g}$ , a lithium carbonate powder having an average particle size of from 1 to 50  $\mu\text{m}$  and a specific surface area of from 0.1 to 10  $\text{m}^2/\text{g}$ , and a powder of an oxide of metal element M having an average particle size of at most 10  $\mu\text{m}$  and a specific surface area of from 1 to 100  $\text{m}^2/\text{gm}$ , and firing the mixture at a temperature of from 850 to 1,000°C in an oxygen-containing atmosphere.

#### IN THE ABSTRACT

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